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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

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L5 L4 AND 562/\$ 113 L5

L4 L3 AND ACETIC ACID.TI. 2375 L4

L3 L2 AND (SN OR SB OR CU OR PT OR AG OR FE OR RE) 3957168 L3

L2 (MO OR W OR AU OR V OR NB) 12173500 L2

DB=PGPB; PLUR=YES; OP=ADJ

L1 20070185349 1 L1

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☐ 1. Document ID: US 20070185349 A1

L6: Entry 1 of 28

File: PGPB

Aug 9, 2007

PGPUB-DOCUMENT-NUMBER: 20070185349

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070185349 A1

TITLE: Mixed metal oxide catalyst and process for production of acetic acid

PUBLICATION-DATE: August 9, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ellis; Brian	East Yorkshire		GB

US-CL-CURRENT: 562/548

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 20060167314 A1

L6: Entry 2 of 28

File: PGPB

Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060167314

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060167314 A1

TITLE: Process for converting methane to acetic acid

PUBLICATION-DATE: July 27, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Periana; Roy A.	Marina Del Rey	CA	US

US-CL-CURRENT: 562/548

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20030158440 A1

L6: Entry 3 of 28

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158440
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030158440 A1

TITLE: Method for the selective production of acetic acid by catalytic oxidation of ethane and/or ethylene

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zeyss, Sabine	Konigstein		DE
Dingerdissen, Uwe	Seeheim-Jugenheim		DE

US-CL-CURRENT: 562/548

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 7189377 B1

L6: Entry 4 of 28

File: USPT

Mar 13, 2007

US-PAT-NO: 7189377
DOCUMENT-IDENTIFIER: US 7189377 B1
** See image for Certificate of Correction **

TITLE: Apparatus for performing integrated process for reproduction of vinyl acetate and/or acetic acid using a fluidized bed

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 7081549 B2

L6: Entry 5 of 28

File: USPT

Jul 25, 2006

US-PAT-NO: 7081549
DOCUMENT-IDENTIFIER: US 7081549 B2

TITLE: Process for the production of acetic acid

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040030184 A1	February 12, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US RE39074 E

L6: Entry 6 of 28

File: USPT

Apr 18, 2006

US-PAT-NO: RE39074

DOCUMENT-IDENTIFIER: US RE39074 E

TITLE: Process for the selective preparation of acetic acid using a molybdenum and palladium based catalytic oxide

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 7. Document ID: US 7015355 B2

L6: Entry 7 of 28

File: USPT

Mar 21, 2006

US-PAT-NO: 7015355

DOCUMENT-IDENTIFIER: US 7015355 B2

**** See image for Certificate of Correction ****

TITLE: Method for the selective production of acetic acid by catalytic oxidation of ethane and/or ethylene

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030158440 A1

August 21, 2003

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 8. Document ID: US 6906221 B2

L6: Entry 8 of 28

File: USPT

Jun 14, 2005

US-PAT-NO: 6906221

DOCUMENT-IDENTIFIER: US 6906221 B2

TITLE: Method for producing acetic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 9. Document ID: US 6867164 B2

L6: Entry 9 of 28

File: USPT

Mar 15, 2005

US-PAT-NO: 6867164

DOCUMENT-IDENTIFIER: US 6867164 B2

TITLE: Catalyst for production of acetic acid or acetic acid and ethyl acetate, process for its production and process for production of acetic acid or acetic acid and ethyl acetate using it

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Documents	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 6531631 B1

L6: Entry 10 of 28

File: USPT

Mar 11, 2003

US-PAT-NO: 6531631

DOCUMENT-IDENTIFIER: US 6531631 B1

TITLE: Oxidation of ethane to acetic acid and ethylene using molybdenum and vanadium based catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Documents	Claims	KWIC	Draw. De
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☐ 11. Document ID: US 6399816 B1

L6: Entry 11 of 28

File: USPT

Jun 4, 2002

US-PAT-NO: 6399816

DOCUMENT-IDENTIFIER: US 6399816 B1

TITLE: Method for selectively producing acetic acid through the catalytic oxidation of ethane

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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☐ 12. Document ID: US 6310241 B1

L6: Entry 12 of 28

File: USPT

Oct 30, 2001

US-PAT-NO: 6310241

DOCUMENT-IDENTIFIER: US 6310241 B1

TITLE: Catalysts methods for producing acetic acid from ethane oxidation using MO, V, PD and NB based catalysts, processes of making same and methods of using same

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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☐ 13. Document ID: US 6281385 B1

L6: Entry 13 of 28

File: USPT

Aug 28, 2001

US-PAT-NO: 6281385

DOCUMENT-IDENTIFIER: US 6281385 B1

TITLE: Process for preparing acetic acid by gas-phase oxidation of saturated C4-hydrocarbons and their mixtures with unsaturated C4-hydrocarbons

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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☐ 14. Document ID: US 6274765 B1

L6: Entry 14 of 28

File: USPT

Aug 14, 2001

US-PAT-NO: 6274765

DOCUMENT-IDENTIFIER: US 6274765 B1

TITLE: Process and catalyst for preparing acetic acid by catalytic oxidation of ethane

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 15. Document ID: US 6274764 B1

L6: Entry 15 of 28

File: USPT

Aug 14, 2001

US-PAT-NO: 6274764

DOCUMENT-IDENTIFIER: US 6274764 B1

TITLE: Process for one step gas phase production of acetic acid from ethylene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 16. Document ID: US 6274763 B1

L6: Entry 16 of 28

File: USPT

Aug 14, 2001

US-PAT-NO: 6274763

DOCUMENT-IDENTIFIER: US 6274763 B1

TITLE: Shell catalyst for producing acetic acid by gas phase oxidation of unsaturated C4 -hydrocarbons

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 17. Document ID: US 6194610 B1

L6: Entry 17 of 28

File: USPT

Feb 27, 2001

US-PAT-NO: 6194610

DOCUMENT-IDENTIFIER: US 6194610 B1

TITLE: Process for the selective preparation of acetic acid using a molybdenum and palladium based catalytic oxide

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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☐ 18. Document ID: US 6180821 B1

L6: Entry 18 of 28

File: USPT

Jan 30, 2001

US-PAT-NO: 6180821

DOCUMENT-IDENTIFIER: US 6180821 B1

TITLE: Integrated process for the production of vinyl acetate and/or acetic acid using a fluidized bed

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 19. Document ID: US 6156928 A

L6: Entry 19 of 28

File: USPT

Dec 5, 2000

US-PAT-NO: 6156928

DOCUMENT-IDENTIFIER: US 6156928 A

TITLE: Method for gas phase production of acetic acid from ethane

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 20. Document ID: US 6130356 A

L6: Entry 20 of 28

File: USPT

Oct 10, 2000

US-PAT-NO: 6130356

DOCUMENT-IDENTIFIER: US 6130356 A

TITLE: Catalysts for the oxidation of ethane to acetic acid, methods of making and using the same

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 21. Document ID: US 6040474 A

L6: Entry 21 of 28

File: USPT

Mar 21, 2000

US-PAT-NO: 6040474

DOCUMENT-IDENTIFIER: US 6040474 A

TITLE: Integrated process for the production of vinyl acetate and/or acetic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 22. Document ID: US 6034270 A

L6: Entry 22 of 28

File: USPT

Mar 7, 2000

US-PAT-NO: 6034270

DOCUMENT-IDENTIFIER: US 6034270 A

TITLE: Process for the selective preparation of acetic acid using a molybdenum, palladium, and rhenium catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 23. Document ID: US 6028221 A

L6: Entry 23 of 28

File: USPT

Feb 22, 2000

US-PAT-NO: 6028221

DOCUMENT-IDENTIFIER: US 6028221 A

TITLE: Catalyst systems for the one step gas phase production of acetic acid from ethylene and methods of making and using the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 24. Document ID: US 5210293 A

L6: Entry 24 of 28

File: USPT

May 11, 1993

US-PAT-NO: 5210293

DOCUMENT-IDENTIFIER: US 5210293 A

TITLE: Process and catalyst for the production of ethylene and acetic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KVMC	Drawn De
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☐ 25. Document ID: US 5162578 A

L6: Entry 25 of 28

File: USPT

Nov 10, 1992

US-PAT-NO: 5162578

DOCUMENT-IDENTIFIER: US 5162578 A

**** See image for Certificate of Correction ****

TITLE: Acetic acid from ethane, ethylene and oxygen

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KVMC	Drawn De
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☐ 26. Document ID: US 4935549 A

L6: Entry 26 of 28

File: USPT

Jun 19, 1990

US-PAT-NO: 4935549

DOCUMENT-IDENTIFIER: US 4935549 A

TITLE: Process for producing acetic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KVMC	Drawn De
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☐ 27. Document ID: US 4219671 A

L6: Entry 27 of 28

File: USPT

Aug 26, 1980

US-PAT-NO: 4219671

DOCUMENT-IDENTIFIER: US 4219671 A

TITLE: Oxidation of butene to acetic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KVMC	Drawn De
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☐ 28. Document ID: US 4146734 A

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File: USPT

Mar 27, 1979

US-PAT-NO: 4146734

DOCUMENT-IDENTIFIER: US 4146734 A

**** See image for Certificate of Correction ****

TITLE: Oxidation of butene to acetic acid and catalyst therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KVMC	Drawn De
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